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MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPP	
MMM	MMM	TTT	AAAAAA	AAAAAAA		AAAAAAAA	ČČČ	PPP	
MMM	MMM	TTT	AAAAAA	AAAAAAA		AAAAAAAA	ČČČ	PPP	
MMM	MMM	TTT		AAAAAAA		AAAAAAAA	ččč	PPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMP	MMM	TTT	AAA	AAA	AAA	AAA	ččč	PPP	
MMM	MMM	TIT	AAA	AAA	AAA	AAA	CCCCCCCCCC	PPP	
MMM	MMM	ŤŤŤ	AAA	AAA	AAA	AAA	2222222222	PPP	
MMM	MMM	ttt	AAA	AAA	AAA	AAA	2222222222	PPP	

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		\$			

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VAX-11 Bliss-32 V4.0-742 [MTAACP.SRCJFRMHDR.B32;1

Page

VC

MODULE FRMHDR (LANGUAGE (BLISS32) . IDENT = 'V04-000'

BEGIN

1 \*

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1 \* 1 \*

! \*

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FACILITY: MTAACP

ABSTRACT:

This module formats HDR1, HDR2, HDR3, and HDR4.

**ENVIRONMENT:** 

Starlet operating system, including privileged system services and internal exec routines.

CREATION DATE: 2-JUN-77 14:35 AUTHOR: D. H. GILLESPIE,

MODIFIED BY:

MMD0301 Meg Dumont, 20-Jun-1984 11:26 Fix to default HDR4 file extension to ASCII zeros instead of V03-003 MMD0301 decimal zeros

MMD0279 Meg Dumont, 23-Mar-1984 10:25 fix long file name support such that for ANSI version 3 volumes it converts the exentsion length to ASCII characters before writing it to the label. V03-002 MMD0279

106

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                                                                                                                                     MMD0160 Meg Dumont, 26-Apr-1983 9:31 Add long file name support include: 1) Change FORMAT_FILE_NAME to understand that VMS long file names are split between the HDR1 and HDR4 labels. 2) Change FORMAT_HDRS to format the HDR4. Added support for interchange qualifier.
                                                                                                         V03-001 MMD0160
    60
    61
DMW00069 David Michael Walp 11-Jan-1981
Added support of ANSI "a" 17 character filename thru
                                                                                                         V02-012 DMW00069
                                                                                                                                      QIO filename parameter
                                                                                                         V02-011 DMW00064
                                                                                                                                      DMW00064 David Michael Walp 6-Jan-1981
Return VMS file spec created by ASCNAME without quotes
                                                                                                                                      DMW00063 David Michael Walp 18-Dec-19 Finished ANSI "a" 17 character file name support
                                                                                                         V02-010 DMW00063
                                                                                                                                                                                                                                                                                        18-Dec-1981
                                                                                                         V02-009 DMW00053
                                                                                                                                                                                                 David Michael Walp
                                                                                                                                                                                                                                                                                        10-Nov-1981
                                                                                                                                      Return if ANSI resultant name, return it minus trailing
                                                                                                                                      spaces.
                                                                                                                                      DMW00043 David Michael Walp 27-Oct
Added ANSI "a" 17 character file name support
                                                                                                         V02-008 DMW00043
                                                                                                                                                                                                                                                                                        27-Oct-1981
                                                                                                                                      DMW00016 David Michael Walp 20-May-1981
Get the File Set Id from the MVL rather then 1st volume
                                                                                                         V02-007 DMW00016
                                                                                                                                      mounted label in the VCB.
                                                                                                                                     DMW00008 David Michael Walp 23-Jan-1981
Added check for '%' wild card, needed beacuse of expanded
wild card support. Also code commented out for support of
HDR2 attributes.
                                                                                                         V02-006 DMW00008
                                                                                                         V02-005 REFORMAT
                                                                                                                                                                                                Maria del C. Nasr
                                                                                                                                                                                                                                                                                       30-Jun-1980
                                                                                                         A0004
                                                                                                                                      MCN0008
                                                                                                                                                                                                Maria del C. Nasr
                                                                                                                                                                                                                                                                                        22-Feb-1980 16:29
                                                                                                                                      Temporary support of RMS attributes in HDR2
                                                                                                         A0003
                                                                                                                                      MCN0003
                                                                                                                                                                                                Maria del C. Nasr
                                                                                                                                                                                                                                                                                       28-Sep-79 10:23
                                                                                                                                      Add HDR3 processing
                                                                           LIBRARY 'SYS$LIBRARY:LIB.L32';
                                                                           REQUIRE 'SRC$:MTADEF.B32':
                                                                            FORWARD ROUTINE
```

FORMAT\_HDRS

: COMMON\_CALL NOVALUE; ! format headers

The next loop iterates over the RAD-50 words in the name block. There are 3 words for name, 1 for type. Expand each word into the 3 RAD-50 characters.

BEGIN

164

FRI

```
FRMHDR
V04-000
                                                                                                                            VAX-11 Bliss-32 V4.0-742
EMTAACP.SRCJFRMHDR.B32:1
                                             INCR I FROM 0 TO ( IF .K THEN 0 ELSE 2 )
   / (40 * 40 );
MOD 40;
MOD 40;
                                                  BEGIN
CHARS
CHARS
                                                                   =
                                                     Now convert each character into the correct ASCII code and store it in the string buffer if it is not null.
                                                  INCR J FROM 0 TO 2 DO

IF .CHARS [ .J ] NEQ 0 THEN

BEGIN
                                                             STRING [ .OUT_INDEX ] = ( IF .CHARS [ .J ] LSS 30
THEN ( .CHARS [ .J ] - 1 ) + 'A'
ELSE ( .CHARS [ .J ] - 30 ) + '0' );
                                                             OUT_INDEX = .OUT_INDEX + 1;
                                                             END:
                                                  END:
                                                                                                     ! end of word loop
                                               At the end of name field, insert the dot.
                                             IF .K EQL O
                                                 BEGIN
STRING [ .OUT_INDEX ] = '.';
OUT_INDEX = .OUT_INDEX + 1;
                                            END:
                                                                                                     ! end of outer loop
                                       ! fill in the version number
                                       VERSION = .NMBLOCK [ 4 ];
                                       END;
                                                                                         ! end of macro RAD50_TO_ASCII
```

FRP VO4

; F

:

. .

FRE

......

```
263
263
264
266
268
271
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277
                                      which filename should be used get the filename from name block if not specifed as attribute
                                   ABD = .BBLOCK [ .IO PACKET [ IRP$L SVAPTE ], AIB$L_DESCRIPT ];
IF .ABD [ ABD$C_NAME, ABD$W_COUNT ] EQLU 0
THEN_
                                        BEGIN
RAD50_TO_VMS ( NAME_STRING, VERSION, FILE_SPEC_LEN );
FILE_SPEC_PTR = NAME_STRING;
QUOTED_NAME [ 0 ] = FALSE;
                                    ELSE
                                         BEGIN
FILE_SPEC_LEN =
FILE_SPEC_PTR =
                                                                       [ ABD$C_NAME, ABD$W_COUNT ];
[ ABD$C_NAME, ABD$W_TEXT ] +
[ ABD$C_NAME, ABD$W_TEXT ] + 1;
                                                                . ABD
                                                                . ABD
ABD
                                            do not allow wild cards in the version field
                                                                              FILE SPEC LEN,
FILE SPEC PTR,
FALSE,
                                         VERSION = STRIP_VERSION (
                                                                               QUOTED_NAME [ 0 ] );
                                         END:
                                      check that it is not to large
                                    IF .VERSION GTRU 32767 THEN ERR_EXIT ( SS$_BADFILEVER );
                                   ! Space fill the temporary FILE_ID field
                                   CH$FILL(' ',FILE_SPEC_MAX,FILE_ID);
                                      parse the file name if is a VMS file spec and place into HDR1
                                   IF .ANSI_NAME_SIZE LSS O
                                         BEGIN
301
                                         DESCRIPT [ 0 ] = FILE_SPEC_MAX;
DESCRIPT [ 1 ] = FILE_ID[0];
302
303
304
305
306
307
                                            call the correct parse routine
                                         IF .QUOTED_NAME [ 0 ]
308
309
                                                                           .FILE_SPEC_LEN.
.FILE_SPEC_PTR.
DESCRIPT );
                                               PARSE_QUOTED_NAME (
                                                 set a dummy value so it is tested to see if it is VMS spec
                                               ANSI_NAME_SIZE = 1;
                                               END
                                         ELSE
                                               BEGIN
```

```
FRMHDR
V04-000
                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
EMTAACP.SRCJFRMHDR.B32;1
                                                            IF NOT PARSE_NAME_TYPE ( FALSE, ! no wild cards allowed .FILE_SPEC_LEN, .FILE_SPEC_PTR, DESCRIPT )
                      THEN ERR_EXIT ( SS$_BADFILENAME );
                                                            END:
                                                      END:
                                                  test if the file spec give to us by ATR$ ASCNAME or in quotes is a VMS spec so we do not return it in quotes. A size of zero will not work cause you need at least a ""
                                                  cause you need at least a
                                                   .ANSI_NAME_SIZE GTR 0
                                               THEN
                                                      BEGIN
                                                     EXTERNAL WORK AREA; ! addre
DESCRIPT [ 0 ] = FILE SPEC MAX;
DESCRIPT [ 1 ] = WORK AREA;
                                                                                                 address of general work area
                                                     IF PARSE_NAME_TYPE ( FALSE, ! no wi FILE_SPEC_MAX, FILE_IDEOJ, DESCRIPT )
                                                                                                    ! no wild cards allowed
                                                      THEN ANSI_NAME_SIZE = -1;
                                                     END:
                                               ! Fill in the HDR1 FILE ID field and the HDR4 label.
                                               CH$MOVE (HD1$S_FILEID, FILE_ID, HDR1[HD1$T_FILEID]);
CH$MOVE (HD4$S_FILEID_EXT, FILE_IDCHD1$S_FILEID], HDR4[HD4$T_FILEID_EXT]);
                                                  Check the length of the file name. If the file name will fit in the HDR1 FILE ID then set the HDR4 length to zero. Else set up the lengths such that the HDR1 FILE ID is filed with the name then the remainder of the name is put in the HDR4 label with the
                                                  size that is in the HDR4 label only.
PLEASE NOTE that the actual implementation of this is different for volumes with a 4 in the VOL1 standard field as opposed to a 3 or less.
                                                  This is because the new standard allows us to write any kind
                                                  of data in implementation dependant fields. The old standard did not allow
                                                  us to do this.
                                               BEGIN
                                                            CVT2 = DESCRIPTOR ('!2ZW');
                                                      LOCAL
                                                     DESCR : VECTOR [2,LONG],
MVL : REF BBLOCK;
MVL = .CURRENT_VCB[VCB$L_MVL];
IF .FILE_SPEC_EN LEQU RD1$S_FILEID
THEN
                                                           BEGIN
                                                                     .MVL[MVL$B_STDVER] GTR 3
                                                                   THEN
                                                                          HDR4[HD4$B_FILEID_EXT_SIZE] = 0
                                                                          CH$FILL('O', HD4$S_FILEID_EXT_V3, HDR4[HD4$T_FILEID_EXT_V3]);
                       M 0756
                                                           END
```

(3)

FRE

FRI

```
J 12
16-Sep-1984 02:19:38
14-Sep-1984 12:46:39
FRMHDR
V04-000
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 EMTAACP.SRCJFRMHDR.B32;1
                                                                                                                                                                                                                    Page 10 (4)
                           BIND
    = DESCRIPTOR ( '!4xW'),

= DESCRIPTOR ( '!52W'),

= UPLIT ('00512'),

= UPLIT ('0200'),

= UPLIT ('DECFILÉ11A');
                                                      CVT4
CVT5
                                                       DEFAULT
                                                      DEF HEX
STARID
                                                GLOBAL
                                                      NMBLOCK
                                                                           : BBLOCK [10]:
                                                                                                                                         ! name block
                                               LOCAL
                                                                          : VECTOR [2],
: REF BBLOCK,
: VECTOR [12, BYTE];
                                                      DESCR
                                                                                                                                            general Pdescriptor
magtape volume list
                                                       TODAY
                                                                                                                                         ! regular date string
                                                ! Blank fill the headers and default the fields ! in HDR1, HDR2, HDR3, and HDR4
                                               CH$FILL(' ', 320, .HDR1);
HDR1[HD1$L_HD1LID] = 'HDR1';
MVL = .CURRENT_VCB[VCB$L_MVL];
CH$MOVE(HD1$S_FILESETID, MVL[MVL$T_SET_ID], HDR1[HD1$T_FILESETID]);
CH$FILL('O', HD1$S_BLOCKCNT, HDR1[HD1$T_BLOCKCNT]);
                                                ! If volume is for interchange do not write any VMS specific fields.
                                               IF NOT .CURRENT_VCB[VCB$V_INTCHG]
                                                      THEN
                                                           CH$MOVE(10, STARID, HDR1[HD1$T_SYSCODE]);
                                                  default expiration and creation date
                                               DESCR[0] = 12;
DESCR[1] = TODAY;
                                               SYS$ASCTIM(0, DESCR, 0, 0); ! get today's date in dd-mmm·
CONVDATE_R2J(TODAY, HDR1[HD1$T_CREATEDT]);
CH$MOVE(AD1$S_CREATEDT, HDR1[HD1$T_CREATEDT], HDR1[HD1$T_EXPIREDT]);
                                                                                                                       get today's date in dd-mmm-yyyy
                                                   format HDR2 defaults
                                               HDR2[HD2$L_HD2LID] = 'HDR2';
HDR2[HD2$B_RECFORMAT] = 'F';
DESCR[0] = HD2$S_BLOCKLEN;
DESCR[1] = HDR2[HD2$T_BLOCKLEN];
                                                ! fill in the blocksize
                                               IF NOT $FAO(CVT5, 0, DESCR, .CURRENT_UCB[UCB$W_DEVBUFSIZ])
THEN CH$MOVE(HD2$S_BLOCKLEN, DEFAULT, HDR2[HD2$T_BLOCKLEN]);
                                                  default the the record size to be the blocksize
                                                CH$MOVE(HD2$S_RECLEN, HDR2[HD2$T_BLOCKLEN], HDR2[HD2$T_RECLEN]);
```

FRI

```
use the record size if it exists
IF .CURRENT_VCB[VCB$W_RECORDSZ] NEQ O
THEN
     BEGIN
DESCR[0] = HD2$S_RECLEN;
DESCR[1] = HDR2[AD2$T_RECLEN];
     IF NOT $FAO(CVT5, 0, DESCR, .CURRENT_VCB[VCB$W_RECORDSZ])
          CH$MOVE(HD2$S_RECLEN, HDR2[HD2$T_BLOCKLEN], HDR2[HD2$T_RECLEN]);
HDR2[HD2$T_BUFOFF] = '00';
  default HDR3 ( sequencial files, fixed length block size )
HDR3CHD3$L_HD3LID] = 'HDR3';
CH$FILL('O', HD3$S_RECATR, HDR3CHD3$T_RECATR]);
(HDR3CHD3$T_RECATR] + 4)<0, 32> = '0201';
!++
  default HDR4 no long file name, make the default dependant on the
  ANSI version type
HDR4[HD4$L HD4LID] = 'HDR4';
IF .MVL[MV[$B_STDVER] GTR 3
          HDR4[HD4$B_FILEID_EXT_SIZE] = 0
          CH$FILL('0', HD4$S_FILEID_EXT_V3, HDR4[HD4$T_FILEID_EXT_V3]);
  fill in the RMS default record size
     if record size on mount then use it else if blocks size the use it
     else default
DESCR[0] = 4;
DESCR[1] = HDR3[HD3$T_RECATR];
IF .CURRENT_VCB[VCB$W_RECORDS2] NEQ 0
THEN
     IF NOT $FAO( CVT4, 0, DESCR, .CURRENT_VCB[VCB$W_RECORDSZ] )
     THEN
          BEGIN
          IF NOT $FAO( CVT4, 0, DESCR, .CURRENT_UCB[UCB$W_DEVBUFSIZ] )
THEN CH$MOVE ( 4, DEF_HEX, HDR3[HD3$T_RECATR] );
```

```
L 12
16-Sep-1984 02:19:38
14-Sep-1984 12:46:39
FRMHDR
V04-000
                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 EMTAACP.SRCJFRMHDR.B32;1
     58555555555555555556601234
6001234
                              0964
0965
0966
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0977
0981
0983
0984
                                                             END
                                                     ELSE
                                                             BEGIN
                                                             IF NOT $FAO( CVT4, 0, DESCR, .CURRENT_UCB[UCB$W_DEVBUFSIZ] )
THEN CH$MOVE ( 4, DEF_HEX, HDR3[HD3$T_RECATR] );
                                                        pickup user supplied attributes
                                                     CHSFILL ( 0, 10, NMBLOCK ); WRITE_ATTRIBUTE ();
                                                        set up the file specification
                                                     FORMAT_FILE_NAME;
                                                     END:
                                                                                                                                         ! end of routine FORMAT_HDRS
                                                                                                                                             .TITLE
                                                                                                                                                            FRMHDR
                                                                                                                                                            \V04-000\
                                                                                                                                             .PSECT $CODE$, NOWRT, 2
                                                                                                                 00000 P.AAB:

00004 P.AAA:

00008

00000 P.AAD:

00010 P.AAC:

00014

00018 P.AAE:

00020 P.AAF:

00024 P.AAG:

00030 P.AAI:

00034 P.AAH:

00038

00030 P.AAK:

00044 P.AAJ:
                                                                                   57 58 34 21 00000004
                                                                                                                                             .ASCII \!4XW\
                                                                                                                                             .LONG
                                                                                              000000004
000000000
35 21
000000000
30 30
32 30
45 44
00000004
00000004
00000004
                                                                                                                                             ADDRESS P.AAB
                                                                                    57 5A
                                                                                                                                              .LONG
                                                                                                                                             ADDRESS P.AAD

ASCII \00512\<0><0><0>
ASCII \0200\

ASCII \DECFILE11A\<0><0>
ASCII \!2ZW\
                                                            00
                                                                    00
                             00 41 31
                                                    31
                                                                                                                                              .LONG
                                                                                                                                              ADDRESS P.AAI
ASCII \!4ZL!2ZL\
LONG 8
                                                     4C 5A 32 21 4C 5A
                                                                                                                                             .ASCII
                                                                                                                                             .LONG
                                                                                                                                              ADDRESS P.AAK
                                                                                                                                             .PSECT $LOCKEDD1$,NOEXE,2
                                                                                                                  00000 NMBLOCK::
                                                                                                                                             .BLKB
                                                                                                                                                            10
                                                                                                                                                                   P.AAA
                                                                                                                              CVT5=
                                                                                                                                                                   P.AAC
                                                                                                                             DEFAULT=
                                                                                                                                                                   P.AAE
                                                                                                                             DEF HEX=
STARID=
                                                                                                                                                                   P.AAF
                                                                                                                                                                   P.AAG
                                                                                                                                                           P.AAH
CONVDATE_R2J, SYS$ASCTIM
SYS$FAO, WRITE_ATTRIBUTE
                                                                                                                             CVT2=
                                                                                                                                             .EXTRN
```

FR

000A0

000A5

000AC 000B1 0C0B7 000BB 000BD

FF2A

0000G

0000G

50

6A 0C 5C F 56 A 68

FF22

**PUSHAB** 

CLRL PUSHAB

CALLS BLBS

MOVL MOVC3

MOVL MOVC3 MOVZWL

CLRL

BEQL

DESCR

CVT5

CVT5 #4, SYS\$FAO RO, 2\$ HDR2, RO #5, DEFAULT, 5(RO) HDR2, R6 #5, 5(R6), 10(R6) 80(CURRENT\_VCB), R8 R9 R8 3\$ R9

FR

0902

0906

FRMHDR V04-000	ı							N 12 16-Sep-1 14-Sep-1	984 02:19 984 12:46	9:38 VAX-11 Bliss-32 V4.0-742 6:39 [MTAACP.SRCJFRMHDR.B32;1	Page 14
				F8 FC	AD AD	OA A S F8 A 7 FEED C		00 000C3 9E 000C7 9F 000CE 9F 000D3 FB 000D7 E8 000DA 00 000DD 28 000E2 00 000E8 3\$:	MOVL MOVAB PUSHAB CLRL PUSHAB CALLS BLBS MOVL MOVL MOVL MOVL MOVL MOVL MOVL	#5, DESCR 10(R6), DESCR+4 R8 DESCR -(SP) CVT5 #4, SYS\$FAO R0, 3\$	0913 0914 0916
		0A	AO	05	6A 0B 50	00000 0		E8 000DA	BLBS MOVL	RO. 3\$ HDR2 RO	0918
		Un.	70	32	50 A0	0000G C 3030 8 0000G C 33524448 8		E8 000DA 00 000DD 28 000E2 00 000E8 3\$: 00 000F3 00 000F8 2C 000FF	MOVL	HDR2 RO #5,5(RO), 10(RO) HDR2 RO #12336, 50(RO) HDR3 R6 #861029448, (R6) #0, (SP), #48, #64, 4(R6)	0921
0040	8F		30		56 66 6E	0000G C 3030 8 0000G C 33524448 8		00 000F3 00 000F8	MOVL	HDR3, R6 #861029448, (R6)	0928
0040	or		30	08	A6	04 A 31303230 8	5	00106 00 00108			0929
					A6 50 60 03	31303230 8 000006 C 34524448 8 22 A		00 00108 00 00110 00 00115 91 00110	MOVL MOVL	#825242160, 8(R6) HDR4, R0 #877806664, (R0) 34(MVL), #3	0930 0938
					03	04 A	5 1	91 0011C 1B 00120 94 00122 11 00125	BLEQU	34(MVL), #3 4\$ 4(R0)	0939
				43	AO	3030 8	5 1	11 00125 30 00127 4\$:	BRB	5\$ #12336, 67(RO)	
				43 F8 FC	AD AD	22 A 04 A 3030 8 04 A 5	5 9	00 00127 4\$: 00 0012D 5\$: 00 00131 00 00136	MOVAB	5\$ #12336, 67(R0) #4, DESCR 4(R6), DESCR+4 R9, 6\$	0943 0953 0954 0955
								00 00139 0F 0013B	PUSHL	R9, 6\$ R8 DESCR -(SP)	0958
					64	F8 A	9	04 0013E 0F 00140	PUSHAB	-(SP) CVT4	
					6A 23 50 7E	00006		00 00108 00 00110 00 00115 91 0011C 1B 00120 94 00125 11 00125 12 00127 13 00127 14 00136 15 00138 16 00138 17 00138 18 00147 18 00148 18 00147 18 00156 18 00156 18 00156 18 00157 18 00175	MOVL MOVL CMPB BLEQU CLRB BRB MOVAB BLBC PUSHAB CLRL PUSHAB CALLS BLBS MOVZWL PUSHAB CALLS	-(SP) CVT4 #4. SYS\$FAO R0. 7\$ CURRENT_UCB, R0 66(R0), -(SP) DESCR -(SP) CVT4 #4. SYS\$FAO R0. 7\$ HDR3, R0 DEF_HEX, 4(R0) #0. (SP), #0, #10, NMBLOCK	0967
					7E	0000G C 42 A F8 A FE5C C 0000G C FE69 C	9	SC 0014F OF 00153	PUSHAB	66(RO),(SP) DESCR	
					6A	FESC C	9	F 00158 B 0015C	PUSHAB	CVT4 #4, SYS\$FAO	
				04	6A 0B 50	0000G C		8 0015F 00 00162	MOVL	RO, 7\$ HDR3, RO	0968
	0A		00		AO 6E	0000, C		2C 00160 7\$:			0974
				0000G	CF 50 50	0000G C	) F	B 00175 00 0017A 00 0017F 35 00183 13 00186 31 00188	MOVL	#0, WRITE_ATTRIBUTE IO PACKET, RO a44(RO), ABD 18(ABD) 8\$ 19\$ FILE_SPEC_LEN	0975
					,,,	12 A		35 00183 13 00186	TSTW BEQL	18(ABD) 8\$	
						OC 009	0	31 00188 04 0018B 8\$:	CLRL	19\$ FILE_SPEC_LEN	
					04	0000G CI 2C BI 12 AI 0099 0C AS		00172 8 00175 00 00174 00 00175 35 00183 13 00186 31 00188 34 00188 39 00190 40 00193 11 00195 10 00197 10\$:	CALLS MOVL TSTW BEQL BRW CLRL CLRL BLBC CLRL BRB MOVL MNEGL	K. 10\$ R5 11\$ #2, R5 #1, I	
					55 50	0	1	11 00195 00 00197 10\$: 00 0019A 11\$:	BRB	11\$ #2, R5	

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FRMHDR V04-000				B 13 16-Sep-1984 02:19:38 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:39 [MTAACP.SRC]FRMHDR.B32;1	Page 15
	51	50	5B 54	11 0019D C1 0019F 12\$: ADDL3 K, I R1 3C 001A3 DIVL3 W1600, R2, R1 90 001B1 MOVB R1, CHARS C7 001B4 DIVL3 W40, R2, R1 PMUL W1, R1, W0, -(SP) PM 001C2 MOVB R1, CHARS+1 PM 001C6 EMUL W1, R2, W0, -(SP) PM 001C6 EMUL W1, R2, W0, -(SP) PM 001CB EDIV W40, (SP)+, R1, R1 PM 001CB EDIV W40, (SP)+, R1, R1 PM 001CB EDIV W40, R2, R1 PM 001CB EDIV W40, R2, R1 PM 001CB EDIV W40, R2, R1 PM 001CB EMUL W1, R2, W0, -(SP) PM 001CB EDIV W40, R2, R1 PM 001CB EDIV W40, R1, R1 PM 001CB EDIV W40, R1 PM 001CB EDIV W4	:
	51	32 oc	00006CF41	C7 001A3 MOVZWL NMBLOCK[R1], R2 C7 001A9 DIVL3 #1600, R2, R1	
76	51 00 51	52 51	28	90 001B1 MOVB R1, CHARS C7 001B4 DIVL3 #40, R2, R1	
7E 51	51	01 ÅE	28	7A 001BB EMUL #1, R1, #0, -(SP) 7B 001BD EDIV #40, (SP)+, R1, R1 90 001C2 MOVB R1, CHARS+1	
7E 51	00 51	01 AE 52 8E 02 AE	01 28	7A 001C6 EMUL #1, R2, #0, -(SP) 7B 001CB EDIV #40, (SP)+, R1, R1	
		02 ĀĒ	0000GCF41 0000640 8F 51 28 01 28 51 01 28 51	7A 001C6	
		,,	6E41	9A 001D6 13\$: MOVZBL CHARS[J], R3 13 001DA BEQL 16\$	
		52 1E	70 AE	9E 001DC MOVAB NAME STRING, R2 91 001E0 CMPB R3, #30 1E 001E3 BGEQU 14\$	
		53	40 A3	1E 001E3 BGEQU 14\$ 9E 001E5 MOVAB 64(R3), R3 11 001E9 BRB 15\$	
		OC BE42	12	9E 001E5 MOVAB 64(R3), R3 11 001E9 BRB 15\$ CO 001EB 14\$: ADDL2 #18, R3 90 001EE 15\$: MOVB R3, aFILE_SPEC_LEN[R2] D6 001F3 INCL FILE_SPEC_LEN F3 001F6 16\$: AOBLEQ #2, J, 13\$ F3 001FA 17\$: AOBLEQ R5, I, 12\$	
	DC		OC AE	00 001EB 14\$: ADDL2 #18, R3 90 001EE 15\$: MOVB R3, aFILE_SPEC_LEN[R2] D6 001F3 INCL FILE_SPEC_LEN F3 001F6 16\$: AOBLEQ #2, J, 13\$	
	DC A1	51 50	55	F3 001FA 17\$: AOBLEQ R5, I, 12\$ D5 001FE TSTL K	
		OC BE40	6E41 70 A53 40 A33 40 A33 5A25 5A25 6E A1 50 A2 A2 A2 A2 A2 A3 A2 A3 A3 A3 A3 A3 A3 A3 A3 A3 A3 A3 A3 A3	11 00196 12\$:	
FF7C	54		OC AE	D6 0020B INCL FILE SPEC_LENLROJ	
"""	,,	03 57 08 AF	0000G CF	BO 00214 MOVW NMBLOCK+8, VERSION OF 00219 MOVAR NAME STRING FILE SPEC PTR	
		08 AE 04 AE	01	8A 0021E BICB2 #1, QUOTED_NAME 11 00222 BRB 20\$	
		OC AE	12 A0 10 A0	11 00222 3C 00224 19\$: MOVZWL 18(ABD), FILE_SPEC_LEN 9E 00229 MOVAB 16(ABD), R1 3C 0022D MOVAB 16(ABD), R1 9E 00230 MOVAB 1(R1), R0 9E 00230 MOVAB 1(R1)[R0], FILE_SPEC_PTR 9F 00236 PUSHAB QUOTED_NAME CLRL -(SP) 9F 0023B PUSHAB FILE_SPEC_LEN FB 00241 CALLS #4, STRIP_VERSION BO 00246 MOVW R0, VERSION BO 00246 MOVW R0, VERSION B1 00249 20\$: CMPW VERSION, #32767 BB 00250 CHMU #2080 CC 00254 21\$: MOVC5 #0, (SP), #32, #79, FILE_ID	
,		08 AE	01 A140 04 AE	3C 00224 19\$: MOVZWL 18(ABD), FILE_SPEC_LEN 9E 00229 MOVAB 16(ABD), R1 3C 0022D MOVZWL (R1), R0 9E 00230 MOVAB 1(R1)[R0], FILE_SPEC_PTR 9F 00236 PUSHAB QUOTED_NAME 04 00239 CLRL -(SP) 9F 0023E PUSHAB FILE_SPEC_PTR 9F 0023E PUSHAB FILE_SPEC_LEN 6B 00241 CALLS #4, STRIP_VERSION MOVW R0, VERSION B1 00249 20\$: CMPW VERSION, #32767 1B 0024E BF 00250 CHMU #2080 2C 00254 21\$: MOVC5 #0, (SP), #32, #79, FILE_ID	
			04 AE	9F 00236 PUSHAB QUOTED_NAME 04 00239 CLRL -(SP)	
		00006 65	10 AE 18 AE	9F 0023B PUSHAB FILE_SPEC_PTR 9F 0023E PUSHAB FILE_SPEC_LEN	
		0000G CF 57 7FFF 8F	50	BO 00241 CALLS #4, STRIP VERSION BO 00246 MOVW RO, VERSION B1 00249 208: CMPH VERSION #32767	
				1B 0024E BLEQU 21\$ BF 00250 CHMU #2080	
004F 8F	20	6E	00	2C 00254 21\$: MOVC5 #0, (SP), #32, #79, FILE_ID	
			0000G CF	95 0025D	
		E4 AD E8 AD 15	4F 8F 20 AE 04 AE E4 AD 0C AE	95 0025D	
		15	E4 AD	9F 00271 PUSHAB DESCRIPT DD 00274 PUSHL FILE_SPEC_PTR	

FRM VO4

CLRL

BGEQ

INCL

0000G

ANSI\_NAME\_SIZE

(SP)

FRM

V04

FRMHDR V04-000	D 13 16-Sep-1984 02:19:38 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:39 [MTAACP.SRCJFRMHDR.B72;1	Page 17 (4)
0		
0	7E 57 3C 00347 MOVZWL VERSION, -(SP) 000G CF 02 FB 0034A CALLS #2, CALC TAPE VER	
E8 AD 0	E4 AD 06 DO 0034F MOVL #6, DESCRIPT 000G CF 23 C1 00353 ADDL3 #35, HDR1, DESCRIPT+4  1C AE DD 0035A PUSHL GEN_NUM_VER+4  1C AE DD 0035D PUSHL GEN_NUM_VER  E4 AD 9F 00360 PUSHAB DESCRIPT  7E D4 00363 CLRL -(SP)  FC8F CF 9F 00365 PUSHAB P.AAJ  6A 05 FB 00369 CALLS #5, SYS\$FAO	
	1C AE DD 0035A PUSHL GEN_NUM_VER+4 1C AE DD 0035D PUSHL GEN_NUM_VER E4 AD 9F 00360 PUSHAB DESCRIPT	
	7E D4 00363 CLRL -(SP) FC8F CF 9F 00365 PUSHAB P. AAJ	
	6A 05 FB 00369 CALLS #5, SYS\$FAO RET	: 0984
; Routine Size: 877 bytes, Ro	utine Base: \$CODE\$ + 004C	
: 605 0985 1 : 606 0986 1 END		
; 605 0985 1 ; 606 0986 1 END ; 607 0987 1 ; 608 0988 0 ELUDOM		
:	PSECT SUMMARY	
	Bytes Attributes	19
SCODES: SLOCKEDD1S	953 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) 10 NOVEC, WRT, RD , NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)	
:	ibrary Statistics	
File	Symbols Pages Processing Total Loaded Percent Mapped Time	
: _\$255\$DUA28:[SYSLIB]LIB.L32;1	18619 50 0 1000 00:01.9	
	COMMAND QUALIFIERS	
	L,OPTIMIZE)/LIS=LIS\$:FRMHDR/OBJ=OBJ\$:FRMHDR MSRC\$:FRMHDR/UPDATE=(ENH\$:FRMHDR)	
; 609 0989 0 ; Size: 877 code + 86 data ; Run Time: 00:19.9	a bytes	

FRMI VO4

FRM VO4

0254 AH-BT13A-SE

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